

SUPPLEMENTAL DIGITAL CONTENT 1

TABLE. Time-specific Transition Probabilities Between Health States: After Anterior Discectomy and Fusion for Treatment of 2-Level Symptomatic Disc Disease

Transit From Health State	Transit to Health State					Markov Cycle Length	Time Range
	Mild	Moderate	Severe	Crippled	Bedbound		
Mild	-	-	-	-	-	6 weeks	0 to 6 weeks
	85.2	13.0	0.0	1.9	0.0	6 weeks	6 weeks to 6 months
	75.0	10.4	10.4	2.1	2.1	6 months	6 months to 1 year
	87.1	10.2	2.7	0.0	0.0	6 months	1 to 2 years
	92.4	7.6	0.0	0.0	0.0	6 months	3 year and beyond
Moderate	40.0	60.0	0.0	0.0	0.0	6 weeks	0 to 6 weeks
	35.4	45.1	19.5	0.0	0.0	6 weeks	6 weeks to 6 months
	21.7	47.8	21.7	8.7	0.0	6 months	6 months to 1 year
	18.3	58.3	20.9	1.7	0.9	6 months	1 to 2 years
	21.0	60.3	15.6	3.1	0.0	6 months	3 year and beyond
Severe	44.0	36.0	12.0	8.0	0.0	6 weeks	0 to 6 weeks
	15.3	25.0	44.4	13.9	1.4	6 weeks	6 weeks to 6 months
	15.8	10.5	52.6	21.1	0.0	6 months	6 months to 1 year
	8.0	20.5	50.0	21.6	0.0	6 months	1 to 2 years
	6.2	18.3	55.3	18.7	1.5	6 months	3 year and beyond
Crippled	16.0	30.0	36.0	18.0	0.0	6 weeks	0 to 6 weeks
	0.0	2.4	31.0	54.8	11.9	6 weeks	6 weeks to 6 months

	8.3	8.3	41.7	33.3	8.3	6 months	6 months to 1 year
	2.2	13.0	28.3	52.2	4.4	6 months	1 to 2 years
	2.9	12.2	26.4	55.3	3.2	6 months	3 year and beyond
	12.0	32.0	28.0	24.0	4.0	6 weeks	0 to 6 weeks
	0.0	0.0	18.2	18.2	63.6	6 weeks	6 weeks to 6 months
Bedbound	0.0	0.0	0.0	66.7	33.3	6 months	6 months to 1 year
	0.0	0.0	27.3	9.1	63.6	6 months	1 to 2 years
	0.0	0.0	11.5	18.0	70.5	6 months	3 year and beyond